

## Patent Assignment Abstract of Title

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3**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** KAKEHI, YUJI**Exec Dt:** 11/24/2001**Assignee:** MITSUBISHI DENKI KABUSHIKI KAISHA

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	Document ID	Issue Date	Pages	Title	Current OR
1	US 20050100082 A1	20050512	13	Channel equalisation	375/148
2	US 20050047484 A1	20050303	17	Interference suppression in a CDMA receiver during at least one of idle state and access state operation	375/148
3	US 20040240531 A1	20041202	18	Communication receiver with hybrid equalizer	375/148
4	US 20040184515 A1	20040923	26	Finger using mixed weighting, and its application for demodulation apparatus and method	375/148
5	US 20040156427 A1	20040812	35	System and method for generating signal waveforms in a CDMA cellular telephone system	375/150
6	US 20040125868 A1	20040701	20	Acquisition and tracking of burst code signals	375/150
7	US 20040086027 A1	20040506	42	Orthogonal superposition coding for direct-sequence communications	375/146
8	US 20040071199 A1	20040415	25	Virtual finger method and apparatus for processing digital communication signals	375/150
9	US 20040071198 A1	20040415	46	Code detection	375/148
10	US 20040071193 A1	20040415	50	Path search method, channel estimation method and communication device	375/144
11	US 20040004997 A1	20040108	25	Searching method and apparatus for processing digital communication signals	375/148
12	US 20030235238 A1	20031225	21	Multipath channel tap delay estimation in a CDMA spread spectrum receiver	375/148
13	US 20030231705 A1	20031218	15	Digital correlators	375/150
14	US 20030202569 A1	20031030	14	Flexible correlation and queueing in CDMA communication systems	375/150
15	US 20030198283 A1	20031023	14	Dynamic pilot filter bandwidth estimation	375/147
16	US 20030174760 A1	20030918	13	ACCELERATED BASE STATION SEARCHING BY BUFFERING SAMPLES	375/147
17	US 20030142734 A1	20030731	19	Pilot interpolation for a gated pilot with compensation for induced phase changes	375/149
18	US 20030142728 A1	20030731	12	Discontinuous transmission (DTX) detection	375/147

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1	375/150	Ma, Yugang
2		He, Tao et al.
3	375/150	Black, Peter J. et al.
4		Im, Heung-Jae
5		Gilhousen, Klein S. et al.
6		Keller, Merle L. et al.
7	370/208; 375/147	Shattil, Steve J.
8		Boesel, Robert W. et al.
9		Lomp, Gary et al.
10	375/148	Atarashi, Hiroyuki et al.
11	375/150; 375/343	Boesel, Robert W. et al.
12	375/150; 375/152	Schelm, Jacob et al.
13		Lewis, Jonathan D.
14		Kim, Yun et al.
15		Patel, Shimman et al.
16		RICK, ROLAND R. et al.
17		Black, Peter J. et al.
18		Lin, Yu-Chuan

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19	US 20030142726 A1	20030731	22	Universal rake receiver	375/146
20	US 20030128746 A1	20030710	16	Robust communications system utilizing repetition code and cumulative decoder associated therewith	375/148
21	US 20030058929 A1	20030327	22	ADAPTIVE WIRELESS COMMUNICATION RECEIVER	375/150
22	US 20020136280 A1	20020926	35	Matched filter and method for determining correlation	375/150
23	US 20020097785 A1	20020725	20	System and method for performing accurate demodulation of turbo-encoded signals via pilot assisted coherent demodulation	375/147
24	US 20020064245 A1	20020530	31	Ultra wide bandwidth noise cancellation mechanism and method	375/346
25	US 20020064215 A1	20020530	17	Path searcher for spread spectrum receiver	375/150
26	US 20020034214 A1	20020321	35	OFDM receiving device and OFDM receiving method	375/147
27	US 20020015440 A1	20020207	12	Reception method and receiving apparatus	375/148
28	US 20010043643 A1	20011122	17	Path detection method and receiver	375/147
29	US 6788731 B2	20040907	13	Flexible correlation and queueing in CDMA communication systems	375/142
30	US 6782059 B2	20040824	11	Discontinuous transmission (DTX) detection	375/340
31	US 6778586 B1	20040817	27	Radio communication equipment and communication method	375/130
32	US 6760362 B2	20040706	14	Dynamic pilot filter bandwidth estimation	375/147
33	US 6728304 B2	20040427	14	Method and apparatus for performing a signal detection and assignment in a wireless communication system	375/148

	<b>Current XRef</b>	<b>Inventor</b>
<b>19</b>	375/147; 375/239	Eltawil, Ahmed et al.
<b>20</b>	375/150	Lerner, Gregory et al.
<b>21</b>	375/152	COX, EARL C. et al.
<b>22</b>	375/152	Kido, Naoshige
<b>23</b>		Ling, Fuyun et al.
<b>24</b>	375/148	McCorkle, John W.
<b>25</b>		Yasaki, Takahiro
<b>26</b>	375/354	Okada, Takahiro et al.
<b>27</b>		Yoshimura, Osamu
<b>28</b>		Ogami, Tadashi
<b>29</b>	375/150; 375/343; 711/150; 711/153; 711/5	Kim; Yun et al.
<b>30</b>	375/147; 375/316; 455/522	Lin; Yu-Chuan
<b>31</b>	375/134; 375/141; 375/143; 375/149	Mano; Hiroshi
<b>32</b>	375/350	Patel; Shimman et al.
<b>33</b>	370/335; 370/342; 375/144; 455/517	Brown; Tyler et al.

	Document ID	Issue Date	Pages	Title	Current OR
34	US 6707842 B2	20040316	12	Accelerated base station searching by buffering samples	375/142
35	US 6697350 B2	20040224	146	Adaptive vector correlator for spread-spectrum communications	370/342
36	US 6680967 B1	20040120	13	Receiver	375/148
37	US 6647056 B1	20031111	14	Correlation circuit for spread spectrum communication, demodulation circuit and reception apparatus	375/150
38	US 6606485 B1	20030812	15	Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	455/140
39	US 6603801 B1	20030805	50	Spread spectrum transceiver for use in wireless local area network and having multipath mitigation	375/147
40	US 6597727 B2	20030722	62	Programmable modem apparatus for transmitting and receiving digital data, design method and use method for the modem	375/147
41	US 6507605 B1	20030114	47	Rake receiver in direct spreading CDMA transmission	375/152
42	US 6456608 B1	20020924	146	Adaptive vector correlator using weighting signals for spread-spectrum communications	370/335
43	US 6424631 B1	20020723	18	Apparatus and methods for determining rate of transmitted variable rate data	370/252
44	US 6377607 B1	20020423	19	System and method for performing accurate demodulation of turbo-encoded signals via pilot assisted coherent demodulation	375/130
45	US 6377559 B1	20020423	13	Method, receiver and mobile station for transmitting data in a radio communication system	370/326

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<b>34</b>	370/331; 375/150; 375/367	Rick; Roland R. et al.
<b>35</b>	375/150	Lomp; Gary R.
<b>36</b>	375/144; 375/347; 375/349	Westman; Tapani Jari
<b>37</b>	375/147; 375/152	Imaizumi; Ichiro et al.
<b>38</b>	370/331; 375/148; 455/187.1; 455/191.1; 455/442	Chen; Tao et al.
<b>39</b>	375/130	Andren; Carl et al.
<b>40</b>	375/222; 375/316	Philips; Lieven et al.
<b>41</b>	375/148	Fukumoto; Satoru et al.
<b>42</b>	370/342; 375/150	Lomp; Gary R.
<b>43</b>	375/147; 375/340	Czaja; Stash F. et al.
<b>44</b>	375/148; 375/341; 375/346; 375/349	Ling; Fuyun et al.
<b>45</b>	370/249; 370/334; 370/342; 375/149	Haardt; Martin

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46	US 6243410 B1	20010605	8	Demodulator having an infinite-duration impulse response filter with dynamic coefficient scaling	375/148
47	US 6240146 B1	20010529	11	Demodulating digital video broadcast signals	375/344
48	US 6229843 B1	20010508	47	Pilot adaptive vector correlator	375/150
49	US 6154487 A	20001128	59	Spread-spectrum signal receiving method and spread-spectrum signal receiving apparatus	375/150
50	US 6125137 A	20000926	11	Apparatus and method for performing a signal search in a coherent wireless communication system	375/148
51	US 6108324 A	20000822	12	Apparatus and method for performing a signal search in a wireless communication system	370/335
52	US 6031862 A	20000229	45	Ultrawide-band communication system and method	375/146
53	US 5963581 A	19991005	44	Ultrawide-band communication system and method	375/131
54	US 5953370 A	19990914	66	Apparatus for receiving and correlating a spread spectrum signal	375/150
55	US 5943361 A	19990824	36	System and method for generating signal waveforms in a CDMA cellular telephone system	375/142
56	US 5923668 A	19990713	24	Apparatus and method of establishing a downlink communication path in a wireless telecommunications system	370/515
57	US 5903598 A	19990511	37	Method and system for simultaneously broadcasting and receiving digital and analog signals	375/150
58	US 5881100 A	19990309	66	Method and apparatus for coherent correlation of a spread spectrum signal	375/150



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<b>46</b>	375/233; 375/350	LaRosa; Christopher Peter et al.
<b>47</b>	375/147; 375/340	Stott; Jonathan Highton et al.
<b>48</b>	375/152	Lomp; Gary et al.
<b>49</b>	375/152	Murai; Hideshi et al.
<b>50</b>	370/320; 370/335; 370/342; 375/144	Wang; Michael Mao et al.
<b>51</b>	375/147	Brown; Tyler A. et al.
<b>52</b>	370/213; 375/150; 375/239; 375/259; 375/295	Fullerton; Larry W. et al.
<b>53</b>	375/150; 375/343	Fullerton; Larry W. et al.
<b>54</b>	375/140	Durrant; Randolph L. et al.
<b>55</b>	370/320; 375/144; 375/146; 375/150; 375/295	Gilhousen; Klein S. et al.
<b>56</b>	370/503; 375/149; 375/152	Lysejko; Martin
<b>57</b>	370/208; 708/250	Hunsinger; Bill J. et al.
<b>58</b>	375/274; 375/336; 375/343	Durrant; Randolph L. et al.

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59	US 5856998 A	19990105	67	Method and apparatus for correlating a continuous phase modulated spread spectrum signal	375/150
60	US 5841806 A	19981124	35	Method and apparatus for the transmission of energy-scaled variable rate data	375/146
61	US 5832028 A	19981103	67	Method and apparatus for coherent serial correlation of a spread spectrum signal	375/150
62	US 5832025 A	19981103	14	Receiving apparatus and communications apparatus	375/148
63	US 5799011 A	19980825	9	CDMA power control channel estimation using dynamic coefficient scaling	370/335
64	US 5799010 A	19980825	82	Code division multiple access (CDMA) communication system	370/335
65	US 5790587 A	19980804	23	Multi-band, multi-mode spread-spectrum communication system	375/147
66	US 5787112 A	19980728	53	Data demodulation circuit and method for spread spectrum communication	375/148
67	US 5757847 A	19980526	66	Method and apparatus for decoding a phase encoded signal	375/150
68	US 5754585 A	19980519	67	Method and apparatus for serial noncoherent correlation of a spread spectrum signal	375/150
69	US 5745525 A	19980428	36	Method and system for simultaneously broadcasting and receiving digital and analog signals	375/285
70	US 5712870 A	19980127	10	Packet header generation and detection circuitry	375/147

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<b>59</b>	375/336; 375/343	Durrant; Randolph L. et al.
<b>60</b>	370/208; 370/342; 375/148; 375/150; 375/295; 380/34; 455/466	Gilhousen; Klein S. et al.
<b>61</b>	375/367	Durrant; Randolph L. et al.
<b>62</b>	375/150	Yamamoto; Katsuya
<b>63</b>	370/318; 370/342; 370/522; 375/150; 375/343	LaRosa; Christopher Peter et al.
<b>64</b>	370/342; 375/146; 375/149; 375/150	Lomp; Gary et al.
<b>65</b>	375/260	Smith; Douglas G. et al.
<b>66</b>	375/367; 375/371	Murai; Hideshi
<b>67</b>	375/331; 375/343	Durrant; Randolph L. et al.
<b>68</b>	375/336	Durrant; Randolph L. et al.
<b>69</b>	375/147; 375/216; 375/344; 375/346	Hunsinger; Bill J. et al.
<b>70</b>	370/206; 370/320; 375/279; 375/308	Petrick; Al

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71	US 5694417 A	19971202	10	Short burst direct acquisition direct sequence spread spectrum receiver	375/150
72	US 5692007 A	19971125	67	Method and apparatus for differential phase encoding and decoding in spread-spectrum communication systems with continuous-phase modulation	375/142
73	US 5691974 A	19971125	30	Method and apparatus for using full spectrum transmitted power in a spread spectrum communication system for tracking individual recipient phase, time and energy	370/203
74	US 5680414 A	19971021	67	Synchronization apparatus and method for spread spectrum receiver	375/150
75	US 5659574 A	19970819	67	Multi-bit correlation of continuous phase modulated signals	375/150
76	US 5629956 A	19970513	67	Method and apparatus for reception and noncoherent serial correlation of a continuous phase modulated signal	375/150
77	US 5627856 A	19970506	67	Method and apparatus for receiving and despreading a continuous phase-modulated spread spectrum signal using self-synchronizing correlators	375/150
78	US 5610940 A	19970311	67	Method and apparatus for noncoherent reception and correlation of a continuous phase modulated signal	375/150
79	US 5608722 A	19970304	22	Multi-user communication system architecture with distributed receivers	370/320
80	US 5581575 A	19961203	14	Method and apparatus for transmission of variable rate digital data	375/142

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71	375/329	Andren; Carl et al.
72	375/146; 375/150; 375/273; 375/283	Durrant; Randolph L. et al.
73	370/209; 370/210; 370/320; 370/441; 370/479; 370/516; 375/149; 375/326; 375/375	Zehavi; Ephraim et al.
74	370/515; 375/149; 375/152; 375/367	Durrant; Randolph L. et al.
75	375/336	Durrant; Randolph L. et al.
76	375/336; 375/343	Durrant; Randolph L. et al.
77	375/343	Durrant; Randolph L. et al.
78	375/274; 375/343	Durrant; Randolph L. et al.
79	370/203; 375/148	Miller; David S.
80	370/335; 370/468; 375/146; 375/150; 375/281	Zehavi; Ephraim et al.

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81	US 5577025 A	19961119	18	Signal acquisition in a multi-user communication system using multiple walsh channels	370/209
82	US 5577022 A	19961119	20	Pilot signal searching technique for a cellular communications system	370/332
83	US 5550811 A	19960827	10	Sync acquisition and tracking circuit for DS/CDMA receiver	370/342
84	US 5548613 A	19960820	11	DS/CDMA receiver using moving-averaged pilot signals for weighting and phase rotation of orthogonal data symbol vectors	375/150
85	US 5533012 A	19960702	35	Code-division multiple-access system with improved utilization of upstream and downstream channels	370/342
86	US 5528624 A	19960618	16	DS/CDMA receiver using parallel-operating multi-purpose correlators	375/148
87	US 5497395 A	19960305	15	Method and apparatus for modulating signal waveforms in a CDMA communication system	370/209
88	US 5383220 A	19950117	23	Data demodulator of a receiving apparatus for spread spectrum communication	375/150
89	US 5271034 A	19931214	17	System and method for receiving and decoding global positioning satellite signals	375/150
90	US 5103459 A	19920407	46	System and method for generating signal waveforms in a CDMA cellular telephone system	370/206

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<b>81</b>	370/342; 370/500; 370/515; 375/149; 375/354	Skinner, deceased; Gordon et al.
<b>82</b>	370/335; 370/491; 375/150; 455/434; 455/67.14	Padovani; Roberto et al.
<b>83</b>	370/515; 375/149	Kaku; Tomoya et al.
<b>84</b>		Kaku; Tomoya et al.
<b>85</b>	370/208; 375/148; 704/500; 704/504	Fukasawa; Atsushi et al.
<b>86</b>	370/209; 370/335; 375/150	Kaku; Tomoya et al.
<b>87</b>	370/335; 375/142; 375/146; 375/150; 380/34	Jou; Yu-Cheun
<b>88</b>	380/34	Murai; Hideshi
<b>89</b>	342/357.1 2; 342/386	Abaunza; John
<b>90</b>	370/209; 370/335; 370/342; 375/142; 375/150; 375/309; 380/34	Gilhousen; Klein S. et al.

	Document ID	Issue Date	Pages	Title	Current OR
91	US 4653069 A	19870324	31	Spread spectrum correlation receiver	380/31



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<b>91</b>	375/150; 380/34	Roeder; Allan W.